

Jimmy Benjamin

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CYSE 270

10/12/2025

Task A:

Step 1:

```
(jimmy_benjamin_009@kali)-[~]
└─$ sudo groupadd employee

(jimmy_benjamin_009@kali)-[~]
└─$ sudo groupadd payroll

(jimmy_benjamin_009@kali)-[~]
└─$ sudo groupadd admin
```

Step 2:

```
(jimmy_benjamin_009@kali)-[~]
└─$ sudo useradd -m -d /home/sophia -g employee -s /bin/bash sophia

(jimmy_benjamin_009@kali)-[~]
└─$ sudo passwd sophia
New password:
Retype new password:
passwd: password updated successfully

(jimmy_benjamin_009@kali)-[~]
└─$ sudo useradd -m -d /home/olivia -g payroll -s /bin/bash olivia

(jimmy_benjamin_009@kali)-[~]
└─$ sudo passwd olivia
New password:
Retype new password:
passwd: password updated successfully

(jimmy_benjamin_009@kali)-[~]
└─$ sudo useradd -m -d /home/emma -g admin -s /bin/bash emma

(jimmy_benjamin_009@kali)-[~]
└─$ sudo passwd emma
New password:
Retype new password:
passwd: password updated successfully
```

Passwords: Sophia - hp#46, Olivia - sj@28, Emma - ls82!

Step 3:

```
(jimmy_benjamin_009@kali)-[~]
└─$ sudo groupadd jbenj009
[sudo] password for jimmy_benjamin_009:

(jimmy_benjamin_009@kali)-[~]
└─$ sudo usermod -aG jbenj009 sophia

(jimmy_benjamin_009@kali)-[~]
└─$ sudo usermod -aG jbenj009 olivia

(jimmy_benjamin_009@kali)-[~]
└─$ sudo usermod -aG jbenj009 emma

(jimmy_benjamin_009@kali)-[~]
└─$ groups sophia
sophia : employee jbenj009

(jimmy_benjamin_009@kali)-[~]
└─$ groups olivia
olivia : payroll jbenj009

(jimmy_benjamin_009@kali)-[~]
└─$ groups emma
emma : admin jbenj009
```

Step 4:

```
(jimmy_benjamin_009@kali)-[~]
└─$ sudo mkdir /home/cyse_project
[sudo] password for jimmy_benjamin_009:

(jimmy_benjamin_009@kali)-[~]
└─$ sudo chown jbenj009 /home/cyse_project
chown: invalid user: 'jbenj009'

(jimmy_benjamin_009@kali)-[~]
└─$ sudo chown :jbenj009 /home/cyse_project

(jimmy_benjamin_009@kali)-[~]
└─$ ls -ld /home/cyse_project
drwxr-xr-x 2 root jbenj009 4096 Oct 12 17:33 /home/cyse_project
```

Step 5:

```
(jimmy_benjamin_009@kali)-[~]
└─$ sudo chmod 770 /home/cyse_project
[sudo] password for jimmy_benjamin_009:

(jimmy_benjamin_009@kali)-[~]
└─$ ls -ld /home/cyse_project
drwxrwx--- 2 root jbenj009 4096 Oct 12 17:33 /home/cyse_project
```

Step 6:

```
(jimmy_benjamin_009@kali)-[~]
└─$ su - sophia
Password:
(sophia@kali)-[~]
└─$ umask 027

(sophia@kali)-[~]
└─$ umask
0027

(sophia@kali)-[~]
└─$ touch testfile

(sophia@kali)-[~]
└─$ ls -l testfile
-rw-r----- 1 sophia employee 0 Oct 12 18:02 testfile
```

Step 7:

```
(sophia@kali)-[~]
└─$ touch ~/sophia_homework

(sophia@kali)-[~]
└─$ echo "Jimmy" > ~/sophia_homework

(sophia@kali)-[~]
└─$ cat ~/sophia_homework
Jimmy

(sophia@kali)-[~]
└─$ ls -l ~/sophia_homework
-rw-r----- 1 sophia employee 6 Oct 12 18:26 /home/sophia/sophia_homework
```

Step 8-10:

```
(sophia@kali)-[~]
└─$ cp ~/sophia_homework /home/cyse_project/

(sophia@kali)-[~]
└─$ ls -l /home/cyse_project/sophia_homework
-rw-r----- 1 sophia employee 6 Oct 12 18:36 /home/cyse_project/sophia_homework

(sophia@kali)-[~]
└─$ su - emma
Password:
(emma@kali)-[~]
└─$ cat /home/cyse_project/sophia_homework
cat: /home/cyse_project/sophia_homework: Permission denied

(emma@kali)-[~]
└─$ exit
logout

(sophia@kali)-[~]
└─$ exit
logout

(jimmy_benjamin_009@kali)-[~]
└─$
```

Task B:

Step 1-3:

```
(jimmy_benjamin_009@kali)-[~]
└─$ su -
Password:
(root@kali)-[~]
└─# chmod 2770 /home/cyse_project

(root@kali)-[~]
└─# ls -ld /home/cyse_project
drwxrws--- 2 root jbenj009 4096 Oct 12 18:35 /home/cyse_project

(root@kali)-[~]
└─# exit

(jimmy_benjamin_009@kali)-[~]
└─$ su - sophia
Password:
(sophia@kali)-[~]
└─$ cp ~/sophia_homework /home/cyse_project/sophia_homework2

(sophia@kali)-[~]
└─$ ls -l /home/cyse_project/sophia_homework2
-rw-r----- 1 sophia jbenj009 6 Oct 12 20:30 /home/cyse_project/sophia_homework2

(sophia@kali)-[~]
└─$ su - emma
Password:
(emma@kali)-[~]
└─$ cat /home/cyse_project/sophia_homework2
Jimmy
```

Task C:

Step 1-3:

```
(jimmy_benjamin_009@kali)-[~]
└─$ su -
Password:
└─(root@kali)-[~]
└─# chmod 730 /home/cyse_project

└─(root@kali)-[~]
└─# ls -ld /home/cyse_project
drwx-ws— 2 root jbenj009 4096 Oct 12 20:30 /home/cyse_project

└─(root@kali)-[~]
└─# su - sophia
└─(sophia@kali)-[~]
└─$ cp ~/sophia_homework /home/cyse_project/sophia_homework3

└─(sophia@kali)-[~]
└─$ su - olivia
Password:
└─(olivia@kali)-[~]
└─$ cat /home/cyse_project/sophia_homework3
Jimmy

└─(olivia@kali)-[~]
└─$ █
```